A CATALOGUE OF FISHES RECEIVED FROM THE PUBLIC MUSEUM OF THE INSTITUTE OF JAMAICA, WITH DESCRIPTIONS OF *Pristipoma approximans* and *Tylosurus euryops*, TWO NEW SPECIES.

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The Jamaican fishes catalogued below were sent to the U. S. National Museum, for identification, in 1881 and 1882 by the Public Museum of the Institute of Jamaica at Kingston. Two or more examples of each species were included in the collection, in order that one complete set might be returned with the names and the other retained in this museum.

The common names are those in use among the fishermen of Kingston.

We have not thought it necessary to redescribe such of the species as are well described in Günther's Catalogue of Fishes in the British Museum, and simply refer to the descriptions in that work, except in the case of new species.

The numbers under the names of the species refer to the museum catalogue of fishes; those preceded by an * have been retained in this museum; the others were returned to Kingston.

1. **Antennarius tigris** (Poey) Gthr. "SEA TOAD."
Antennarius tigris GÜNTHER, Cat. Fish. Brit. Mus., iii, 1861, p. 189.
*30144. One specimen.
30144. One specimen.

2. **Chilomycterus antennatus** (Cuv.) Kaup. "SOUR-SOP FISH."
Chilomycterus antennatus GÜNTHER, op. cit., viii, 1870, p. 311.
*32040. One specimen.

3. **Diodon liturosus** Shaw. "SOUR-SOP FISH."
Diodon maculatus GÜNTHER, op. cit., viii, 1870, p. 307.
*32050. One specimen.
32050. One specimen.

4. **Tetrodon testudineus** L. "PORPOISE."
Tetrodon testudineus GÜNTHER, op. cit., viii, 1870, p. 282.
30049. One specimen.
*30060. One specimen.
30065. One specimen.

5. **Ostracion quadricorne** L. "COCKLE-FISH."
Ostracion quadricornis GÜNTHER, op. cit., viii, 1870, p. 257.
*30093. One specimen.
30093. One specimen.
*30094. One specimen. The variety mentioned by Günther with brown spots instead of blue.
30094. One specimen.

6. **Ostracion triquetrum** L. "TRUNK-FISH."
Ostracion triqueter GÜNTHER, op. cit., viii, 1870, p. 256.
30097. One specimen.
*30126. One specimen.

7. **Ostracion bicaudale** L. "TRUNK-FISH."
Ostracion bicaudalis GÜNTHER, op. cit., viii, 1870, p. 257.
*30095. One specimen.
30096. One specimen.

8. **Balistes vetula** L. "OLD WENCH"; "OLD WIFE."
Balistes vetula GÜNTHER, op. cit., viii, 1870, p. 215.
30036. One specimen.
30038. One specimen.
*32045. One specimen.
32045. One specimen.

9. **Monacanthus pardalis** Rüpp. "BESSY CORCA."
Monacanthus pardalis GÜNTHER, op. cit., viii, 1870, p. 230.
*30088. One specimen.
30101. One specimen.
*30102. One specimen.

10. **Monacanthus hispidus** L. "TURBOT."
Monacanthus setifer GÜNTHER, op. cit., viii, 1870, p. 239.
30072. One specimen. D. 28; A. 28.
*30072. One specimen. D. 28; A. 28.

11. **Alutera scripta** (Osbeck) Bleeker. "MINGO."
Monacanthus scriptus GÜNTHER, op. cit., viii, 1870, p. 252.
32041. One specimen. D. 47; A. 49.
*32041. One specimen. D. 47; A. 49.

12. **Bæostoma reticulatum** (Poey) Bean. "FLOUNDER."
Solea reticulata GÜNTHER, op. cit., iv, 1862, p. 472.
*30083. One specimen. D. 54; A. 42; scales ca. 75.
30083. One specimen. D. 55; A. 41.

13. **Brotula barbata** (Schn.) Cuv. "BROWNED NOSE OF DEEPWATER COD."
Brotula barbata GÜNTHER, op. cit., iv, 1862, p. 221.
*32054. One specimen.
32054. One specimen.

14. **Dactylopterus volitans** (L.) Gthr. "COOKE."
Dactylopterus volitans GÜNTHER, op. cit., ii, 1860, p. 221.
30063. One specimen.
*30085. One specimen.
30092. One specimen.

15. **Prionotus punctatus** (Bl.) C. & V. "COOKE."
Prionotus punctatus GÜNTHER, op. cit., ii, 1860, p. 193.

*30114. One specimen.
30114. One specimen.

16. **Scorpæna grandicornis** C. & V. "LION-FISH."
Scorpæna grandicornis GÜNTHER, op. cit., ii, 1860, p. 114.

30081. One specimen.
*30087. One specimen.

17. **Scorpæna stearnsii** Goode & Bean. "POISON GROUPER."
Scorpæna stearnsii GOODE & BEAN, Proc. U. S. Nat. Mus., v, p. 421, Sept. 18, 1882.

*32084. Two specimens.
32084. One specimen.

18. **Scorpæna plumierii** Bloch. "LION-FISH."
Scorpæna plumieri GÜNTHER, op. cit., ii, 1860, p. 113.

*30005. One specimen.

19. **Sparisoma catesbyi** (La C.) Bean. "PARROT-FISH."
Scarus catesbyi GÜNTHER, op. cit., iv, 1862, p. 210.

*32060. One specimen.
32060. One specimen.

20. **Sparisoma radians** (Cuv. & Val.) Bean. "GRASSY GROUND PARROT."
Scarus radians GÜNTHER, op. cit., iv, 1862, p. 211.

*32052. One specimen.
32052. One specimen.

21. **Scarus guacamaia** Cuv. & Val. "PARROT-FISH."
Pseudoscarus guacamaia GÜNTHER, op. cit., iv, 1862, p. 233.

29995. One specimen.
*30000. One specimen.
32058. One specimen.
*32058. One specimen.

22. **Lachnolæmus suillus** Cuv. & Val. "BOAR-FISH"; "HOG-FISH"; "PIG-FISH."
Lachnolaimus falcatus GÜNTHER, op. cit., iv, 1862, p. 87.

*32064. One specimen.
32064. One specimen. D. XIV, 11; A. III, 10; scales 8–38–16.

23. **Platyglossus bivittatus** (Bl.) Gthr. "RAINBOW."
Platyglossus bivittatus GÜNTHER, op. cit., iv, 1862, p. 164.
Platyglossus humeralis GÜNTHER, op. cit., iv, 1862, p. 165.

*30125. One specimen.
30129. One specimen.

24. **Gerres plumierii** Cuv. & Val. "STONE BAR."
Gerres plumieri GÜNTHER, op. cit., iv, 1862, p. 253.

*32048. One specimen.
32048. One specimen.

25. **Gerres rhombeus** Cuv. & Val. "MACCA BACK"; SILVER-FISH."
Gerres rhombeus GÜNTHER (part), op. cit., iv, 1862, p. 253.
30051. One specimen.
*30053. One specimen.
30108. One specimen.
*30108. One specimen.
*30131. Two specimens.
30134. One specimen.

26. **Gerres zebra** Müll. & Trosch. "SILVER-FISH"; "SHAD."
Gerres aprion (Poey); not *G. aprion* C. & V.
? *Gerres zebra* GÜNTHER, op. cit., 1862, p. 254.
*30117. One specimen.
30128. One specimen.

27. **Gerres aprion** Cuv. & Val. "SPANISH SHAD."
32065. One specimen. D. IX, 10; A. III, 7; scales 7–43–12.
*32065. One specimen.

28. **Gerres harengulus** (Goode & Bean) J. & G. "SHAD."
Eucinostomus harengulus GOODE & BEAN, Proc. U. S. Nat. Mus., ii, p. 132, Sept. 19, 1879.
30111. One specimen.
*30121. One specimen.

29. **Teuthis hepatus** L. "DOCTOR-FISH."
Acanthurus chirurgus GÜNTHER, op. cit., iii, 1861, p. 329.
30037. One specimen. D. IX, 25; A. III, 23.
*30046. One specimen. D. IX, 25; A. III, 23.
30061. One specimen.

30. **Teuthis cœruleus** (Bl. & Schn.) "DOCTOR-FISH."
Acanthurus cœruleus GÜNTHER, op. cit., iii, 1861, p. 336.
30029. One specimen.
*30033. One specimen.

31. **Malacanthus plumierii** (Bl.) Cuv. & Val. "SUNSHINE."
Malacanthus plumieri GÜNTHER, op. cit., iii, 1861, p. 359.
*32072. One specimen. D. VI, 56; A. 53.
32072. One specimen.

32. **Chætodon ocellatus** Bl. "BUTTERFLY."
Chætodon bimaculatus GÜNTHER, op. cit., ii, 1860, p. 9.
*30107. One specimen.
30107. One specimen.
30142. One specimen.

33. **Chætodon capistratus** L. "BUTTERFLY."
Chætodon capistratus GÜNTHER, op. cit., ii, 1860, p. 12.
*30143. One specimen.
30143. One specimen.

34. **Chætodon striatus** L. "BUTTERFLY."
Chætodon striatus GÜNTHER, op. cit., ii, 1860, p. 8.
*30106. Two specimens.
30106. One specimen.

35. **Holacanthus ciliaris** (L.) Lac. "HORIZONTAL ANGEL-FISH."
Holacanthus ciliaris GÜNTHER, op. cit., ii, 1860, p. 46.
*30023. One specimen.
30028. One specimen.

36. **Holacanthus tricolor** (Bl.) Cuv. & Val. "ROCK BEAUTY."
Holacanthus tricolor GÜNTHER, op. cit., ii, 1860, p. 49.
*30068. One specimen. D. XIV, 18; A. III, 19; scales ca. 50.
30104. One specimen.
*30105. One specimen.

37. **Pomacanthus aureus** (Bl.) Cuv. & Val. "ANGEL-FISH."
Pomacanthus paru GÜNTHER, op. cit., ii, 1860, p. 55.
*32053. One specimen.
32053. One specimen.
*32059. One specimen.
32059. One specimen.

38. **Trichiurus lepturus** Linn. "CUTLASS-FISH."
Trichiurus lepturus GÜNTHER, op. cit., ii, 1860, p. 346.
*30019. One specimen.
30020. One specimen.
30021. One specimen.

39. **Orcynus alliteratus** (Raf.) Jor. & Gilb. "BONEETO."
Thynnus thunnina GÜNTHER, op. cit., ii, 1860, p. 364.
29992. One specimen.
*29993. One specimen.

40. **Vomer setipinnis** (Mitch.) Gill. "BESSY COCKBURN": "HIGH FOREHEAD."
Argyreiosus setipinnis GÜNTHER, op. cit., ii, 1860, p. 459.
*32043. One specimen.

41. **Selene argentea** La C. "BESSY COCKBURN"; "HIGH FOREHEAD."
Argyreiosus vomer GÜNTHER, op. cit., ii, 1860, p. 458.
*32042. One specimen.

42. **Caranx latus** Agassiz. "HORSE-EYE JACK."
Caranx hippos (part) GÜNTHER, op. cit., ii, 1860, p. 449. (Not *Scomber hippos* L.)
*32069. One specimen (25 inches long). D. VII–I, 20; A. II–I, 17; scutes ca. 30.
32069. One specimen (31 inches long). D. VII–I, 22; A. II–I, 19; scutes ca. 34.

43. **Caranx hippus** (L.) Günther. "COVALLY JACK."
Caranx carangus GÜNTHER, op. cit., ii, 1860, p. 448.
*32080. One specimen. Length, 34 inches.
32080. One specimen. Length, 37 inches. D. VII–I, 21; A. II–I, 17; scutes ca. 35. Breast naked.

44. **Caranx bartholomæi** Cuv. & Val. "GREEN JACK."
Caranx cibi POEY, Mem. Cuba, ii, 1860, p. 224.
*30089. One specimen. D. VII–I, 27; A. II–I, 24; scutes ca. 30.
30089. One specimen.

45. **Chloroscombrus chrysurus** (L.) Gill. "WHITING."
Micropteryx chrysurus GÜNTHER, op. cit., ii, 1860, p. 460.
*30042. One specimen.
30043. One specimen.
*30044. One specimen.
30086. One specimen. D. VII–I, 27; A. II–I, 26.

46. **Trachynotus rhomboides** (Bl.) C. & V. "COBBLER-FISH."
Trachynotus ovatus GÜNTHER, op. cit., ii, 1860, p. 481.
*32061. One specimen.
32061. One specimen. D. VI–I, 20; A. II–I, 18.

47. **Oligoplites saurus** (Bl. & Schn.) Jord. "SEA POLICEMAN."
Chorinemus occidentalis GÜNTHER, op. cit., ii, 1860, p. 475.
30035. One specimen. D. V–I, 20; A. II–I, 21.
*30039. One specimen.
*30040. One specimen.
30116. One specimen.

48. **Stromateus alepidotus** (L.) Jor. & Gilb. "PUPPY-FISH."
Stromateus gardenii GÜNTHER, op. cit., ii, 1860, p. 399.
*30064. One specimen.
30066. One specimen. D. 44; A. 40.

49. **Upeneus maculatus** (Bl.) Cuv. & Val. "GOAT-FISH."
Upeneus maculatus GÜNTHER, op. cit., i, 1859, p. 408.
*30034. One specimen.
30058. One specimen.

50. **Holocentrum ascensione** (Osbech) Jord. "WELSHMAN."
Holocentrum longipinne GÜNTHER, op. cit., i, 1859, p. 28.
*32049. One specimen.
32049. One specimen.

51. **Bairdiella armata** Gill. "LONG TEETH."
Bairdiella armata GILL, Proc. Acad. Nat. Sci. Phila., 1863, p. 164.
Corvina armata GÜNTHER, Trans. Zool. Soc. Lond., 1868, p. 428.
*30052. One specimen.

We have compared this West Indian example with the type of *B. armata*, which is said to have come from the west coast of Central America, and fail to find any characters by which the two may be distinguished. So far as we know, the species has not heretofore been recorded from the Atlantic. *Bairdiella argyroleuca*, which, from the published descriptions would seem to be closely similar to *B. armata*, is really very different. The characters by which it may be best distinguished from *armata* are the following: (1) The spines are much more slender; (2) the spinous dorsal is much higher and the second anal spine comparatively very much shorter; (3) the anal origin is farther from the snout; (4) the vent is much nearer the anal origin; (5) the caudal peduncle is shorter and higher. The proportions of the two forms are well brought out in the table of measurements.

Measurements of species of Bairdiella.

Current number of specimen Locality	35134 *Bairdiella armata* (type). Panama.		30052 *Bairdiella armata.* Jamaica, W. I.		24696 *Bairdiella argyroleuca.* Charleston, S. C.	
	Millimeters.	100ths of length.	Millimeters.	100ths of length.	Millimeters.	100ths of length.
Extreme length	196	....	204	....	205	....
Length to origin of middle candle rays	159	....	167	....	168	....
Body:						
Greatest height	52	32.7	54	32.6	55	33
Greatest width	22	13.8	23	14	23	14
Height at ventrals	52	32.7	54	32.6	55	33
Least height of tail	16	10.1	17	10.2	21	12.7
Length of caudal peduncle	20	12.7	21	12.7	19	11.5
Head:						
Greatest length	51	32	53	32	56	33.4
Distance from snout to nape	30	19	....	....	....	....
Greatest width	24	15¼	26	15½	25	15
Width of interorbital area	11	7	11	6.8	11	6.6
Length of snout	11	7	11	6.8	12	7.3
Length of operculum	18	11.4	19	11.5	20	12
Length of maxilla	18	11.4	20	12	20	12
Length of mandible	21	13.3	24	14.4	27	16.2
Length of longest gill-raker	5	3.2	5	3	5	3
Distance from snout to orbit	13	8.2	13	7.8	14	8.4
Diameter of eye	11	7	11	6.8	12½	7.5
Dorsal (spinous):						
Distance from snout	60	38	62	37.5	63	36.8
Length of base	38	24	39	23.5	38	23
Length of longest spine (4th)	26	16.3	27	16.3	33	19.8
Length of first spine	5	3.2	4⅔	3	3	1.8
Length of second spine	13	8.2	13	7.8	14	8.4
Length of last spine (10th)	6	3.8	7	4.2	8	5
Dorsal (soft):						
Length of base	53	33.4	59	35.4	49	29.4
Length of antecedent spine	10	6⅓	8	5	9	5.4
Length of longest ray	23	14.7	24	14.4	26	15.6
Length of last ray	10	6⅓	10	6	10	6
Anal:						
Distance from snout	113	71.5	124	74.4	136	81.5
Length of base	18	11.4	18	11	17	10.2
Length of first spine	8	5	7	4.2	4	2.5
Length of second spine	34	21.5	34	20.5	22	13.2
Length of first ray (longest)	28+	17.5	31	18.6	26	15.6
Length of last ray	11	7	12	7.2	12	7.5
Caudal:						
Length of middle rays	37	23.5	37	22.5	37	22.3
Pectoral:						
Distance from snout	50	31⅔	53	32	54	32.4
Length	33	21	35	21	34	20.4
Ventral:						
Distance from snout	55	34.8	59	35.4	64	38.5
Length of spine	20	12.7	22	13.4	19	11.5
Length of longest ray	35	22.1	35	21	36	22.5
Vent from anal origin	18	11.4	19	11.5	13	7.8
Dorsal	XI, 23	....	XI, 24	....	XII, 21	....
Anal	II, 8	....	II, 8	....	II, 9	....
Pectoral	17	....	16	....	16	....
Ventral	I, 5	....	I, 5	....	I, 5	....
Number of scales in lateral line	50	....	51	....	50	....
Number of transverse rows above lateral line from origin of spinous dorsal	8	....	8	....	8	....
Number of transverse rows below lateral line from anal origin	9	....	9–10	....	9	....
Number of gill-rakers	8+15	....	8+16	....	7+15	....

52. **Micropogon fournierii** (Desm.) Jord. "MONGALAR DRUMMER."

Micropogon undulatus (part) GÜNTHER, op. cit., ii, 1860, p. 271.

*30024. One specimen. D. X–I, 27; A. II, 8; scales 7–52–15.

30054. One specimen.

30069. One specimen.

The chief differences between the West Indian *Micropogon* and *M. undulatus* are in its higher spinous dorsal, its larger scales on the trunk, and in the coloration.

53. **Larimus breviceps** Cuv. & Val. "JEW HARP DRUMMER."
Larimus breviceps GÜNTHER, op. cit., ii, 1860, p. 268.
30026. One specimen.
*30045. One specimen.

54. **Calamus bajonado** (Bl. & Schn.) Poey. "MUCCO PARAGY."
Calamus bajonado POEY, Ann. Lyc. Nat. Hist. N. Y., vol. x, 1872, p. 176, pl. vi, fig. 1.
29994. One specimen.
*29996. One specimen.

55. **Diplodus unimaculatus** (Bloch). "PILOT-FISH"; "BREAM."
Sargus unimaculatus GÜNTHER, op. cit., i, 1859, p. 446.
30090. One specimen.
*30099. One specimen.
30103. One specimen.
30109. One specimen.
30110. One specimen.
*30118. One specimen.
30135. One specimen.
*30136. One specimen.

56. **Hæmulon arcuatum** Cuv. & Val. "YELLOW GRUNT."
*32068. One specimen. D. XII, 16; A. III, 9; scales 6–52–17.
32068. One specimen.

57. **Hæmulon acutum** Poey. "BASTARD MARGARET."
Hæmulon chromis GÜNTHER, op. cit., i, 1859, p. 310.
*32039. One specimen.
32039. One specimen. D. XII, 17; A. III, 8; scales 6–48–13.

58. **Hæmulon parræ** (Desm.) "BLACK GRUNT."
Hæmulon serratum POEY, Mem. Hist. Nat. Cub., ii, 1856–'58, p. 181 (not *Perca chromis* Brouss.).
*32046. One specimen.
32046. One specimen.

59. **Hæmulon gibbosum** (Schn.) Jord. "MARGARET GRUNT."
Hæmulon album GÜNTHER, op. cit., i, 1859, p. 311.
*32051. One specimen. D. XII, 16; A. III, 8; scales 8–51–13.
32051. One specimen. D. XII, 16; A. III, 8; scales 8–51–14.

60. **Hæmulon rimator** Jordan & Swain MSS. "CÆSAR."
Hæmulon chrysopteron C. & V., Hist. Nat. Poiss., v, 1830, p. 240; GÜNTHER, op. cit., i, 1859, p. 313; HOLBROOK, Ichth. S. C., 1860, p. 121, pl. xvii, fig. 1.
*30070. One specimen.
30076. One specimen.
30120. One specimen.
*30137. One specimen.

61. Hæmulon fremebundum Goode & Bean. "Bow Grunt."

Hæmulon fremebundum Goode & Bean, Proc. U. S. Nat. Mus., ii, p. 340, Mar. 25, 1880.

30022. One specimen.
*30057. One specimen.

We have examined adult specimens from Key West and Jamaica, and find that *fremebundum* is quite different from *chromis* and *rimator* as well as all other *Hæmulons* known to us.

Measurements.

Hæmulon fremebundum Goode & Bean.

Current number of specimen Locality	30022 Jamaica.		30057 Jamaica.	
	Millimeters.	100ths of length.	Millimeters.	100ths of length.
Length to origin of middle caudal rays	264	....	225	....
Body:				
Greatest height	103	39	85	37.7
Greatest width	44	16⅔	34	15
Height at ventrals	103	39	85	37.7
Least height of tail	25	9.5	23	10
Length of caudal peduncle	42	15.9	36	16
Head:				
Greatest length	100	38	85	37.7
Length of longest gill-raker	5	1.9	4⅓	....
Greatest width	44	16⅔	36	16
Width of interorbital area	27	10.3	22	9.7
Length of snout	35	13.3	32	14
Length of operculum	26	10	20	9
Length of maxillary	41	15.5	37	16
Length of upper jaw	49	18.6	44	19.5
Length of mandible	51	19.3	45	20
Distance from snout to orbit	39	14.8	36	16
Diameter of orbit	23	8.8	20	9
Dorsal (spinous):				
Distance from snout	111	42	98	43.5
Length of base	80	30⅓	71	31.5
Length of first spine	11+	4⅙	12	5
Length of longest spine	40	15.2	34	15
Length of eleventh spine	16	6	16	7
Dorsal (soft):				
Length of base	52	20	45	20
Length of antecedent spine	17	6.6	17	7½
Length of first ray	28	10.5	26	11.5
Length of longest ray	32	12	30	13
Length of last ray	16	6	17	7.5
Anal:				
Distance from snout	190	72	167	74
Length of base	31	11.7	27	12
Length of first spine	7	2.6	7	3
Length of second spine	34	13.2	30	13
Length of third spine	32	12	26	11.5
Length of first ray	38	14	35	15.6
Length of longest ray	38	14	35	15.6
Length of last ray	18	7	18	8
Caudal:				
Length of middle rays	24	9	24	10.7
Length of external rays	61	23.1	56	25
Pectoral:				
Distance from snout	95	37	86	38
Length	76	29	66	29.3
Ventral:				
Distance from snout	108	41	91	40.5
Length	56	21	52	23
Dorsal	XI-I, 16	....	XI-I, 16	....
Anal	III, 9	....	III, 9	....
Number of scales in lateral line	50	....	50	....
Number of transverse rows above lateral line	8	....	8	....
Number of transverse rows below lateral line	13	....	13	....
Number of gill-rakers	$\frac{11}{17}$	....	$\frac{11}{17}$	....

62. **Pomadasys approximans**, n. sp.

*30062. One specimen.
30084. One specimen.

This species very closely resembles *P. cultriferum* of Poey, as described in Memorias, ii, p. 185. It agrees with the description in everything except the comparative lengths of the dorsal and anal spines. One of Professor Poey's own specimens determined by him as *P. cultriferum*, No. 4699 in the National Museum collection, agrees even less with his description of the species in the Memorias than do the two specimens under consideration. We have determined, provisionally, to give it the name *P. approximans*, and present a full description and table of measurements.

The body is robust and comparatively high. The profile descends obliquely in an almost straight line from the origin of the spinous dorsal to above the eye, the profile of the snout being steeper. The eye is large, slightly longer than the snout. The interorbital space is flat, its width measured on the bone being about two-thirds of the length of the eye. The maxilla, concealed entirely by the preorbital, reaches to the vertical through the anterior margin of the eye. The height of the preorbital, measured at the middle of the length of the upper jaw, is equal to the interorbital width. The edge of the preopercle is slightly notched and strongly serrated; the serrations of the angle are longer and wider apart than those on the vertical limb. The lower limb is smooth. The teeth are in villiform bands in both jaws, with the outer rows scarcely enlarged. The vomer, palatines, and tongue are toothless. Gill-rakers short, smooth, and widely set, 5 above and 11 below the angle of the anterior arch. The head is scaled throughout, except on the muzzle. The scales of the opercle are irregular in size, and in about seven rows. The bases of the pectorals, ventrals, and caudal fin are scaly. The vertical fins are scaleless, the bases of the soft dorsal and anal being provided with low scaly sheaths. The dorsal spines are very strong, and alternately wider on one side than on the other, permitting the depression of the fin.

The height of the body is contained 2¾ times in the length to the caudal base, and the length of the head 3 times in the same. The diameter of the eye, which equals the least height of the tail, is contained 3½ times in the length of the head. The caudal peduncle is as long as the postorbital part of the head. The first dorsal spine is one-half the length of the second, which is as long as the eye. The fourth dorsal spine is the longest, and is equal to one-half the greatest height of the body. Thence the lengths of the spines gradually decrease to the twelfth and thirteenth spines, which are equal in length, and as long as the second spine. The length of the base of the spinous dorsal is about equal to the distance of its origin from the snout. The length of the base of the soft dorsal is equal to that of the longest dorsal spine. The longest dorsal ray is equal in length to the ninth spine, and is contained about

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2⅓ times in the length of the head. The length of the second anal spine is slightly more than twice the diameter of the eye, and about 3 times the length of the first anal spine. The third anal spine is about two-thirds of the length of the second, and is contained 2½ times in the length of the head.

The length of the pectoral fin is about twice that of the postorbital part of the head, and equals the height of the body at the vent. The ventral is two-thirds as long as the head.

Color, in spirits, olive-gray, with brownish shades. The opercular flap is brown. The membrane of the spinous dorsal is edged with black. The soft dorsal and anal are faintly spotted with brown, the bases of the fins being light. The tips of the ventrals and of the middle caudal rays are dusky.

B. VII; D. XIII, 12; A. III, 7; scales 8–50–15.

A table of measurements follows:

Measurements.

POMADASYS APPROXIMANS.

Current number of specimen Locality	30084 Jamaica.		30062 Jamaica.	
	Millimeters.	100ths of length.	Millimeters.	100ths of length.
Length to origin of middle caudal rays	188	....	180	....
Body:				
Greatest height	68	36	65	36
Greatest width	29	15.4	28	15.5
Height at ventrals	68	36	65	36
Least height of tail	19	10	18	10
Length of caudal peduncle	26	14	26	14.4
Head:				
Greatest length	65	34.5	61	34
Distance from snout to nape	48	25.5	46	25
Greatest width	30	16	29	16
Width of interorbital area	13	7	12	7
Length of snout	18	9.5	16	9
Length of operculum with flap	21	11	19	10.6
Length of maxillary	18	9.5	17	9.4
Length of mandible	24	13	23	12.5
Distance from snout to orbit	20	10.6	20	11
Diameter of orbit	19	10	18½	10
Dorsal (spinous):				
Distance from snout	74	40	72	40
Length of base	74	40	70	39
Length of longest spine (fourth)	34	18	33	18.4
Length of first spine	10	5	9	5
Length of second spine	20	10.6	17	9.4
Length of last spine	19	10	17	9.4
Dorsal (soft):				
Length of base	33	17.5	32	18
Length of antecedent spine	19	10	17	9.4
Length of first ray	27	14	25	14
Length of longest ray	28	15	26	14.4
Length of last ray	15	8	13	7
Anal:				
Distance from snout	136	72.3	132	73
Length of base	26	14	25	14
Length of first spine	13	7	12½	7
Length of second spine	39	20.7	38	21
Length of third spine	26	14	26	14.4
Length of first ray	28	15	27	15
Length of longest ray	28	15	27	15
Length of last ray	13	7	14	7.8

Measurements—Continued.

	Millimeters.	100ths of length.	Millimeters.	100ths of lengths.
Caudal:				
Length of middle rays	36	19	32	18
Length of external rays, upper lobe	41	21.8	40	22
Length of external rays, lower lobe	37	19.7	36	20
Pectoral:				
Distance from snout	68	36	62	34
Length	59	31	54	30
Ventral:				
Distance from snout	75	40	68	37.8
Length to end of longest ray	48	25.5	43	24
Branchiostegals	VII		VII	
Dorsal	XIII, 12		XIII, 12	
Anal	III, 7		III, 7	
Ventral	I, 5		I, 5	
Number of scales in lateral line	50		50	
Number of transverse rows above lateral line	8		8	
Number of transverse rows below lateral line	15		15	
Number of gill-rakers	$\frac{5}{11}$		$\frac{5}{11}$	

63. **Anisotremus virginicus** (L.) Gill. "GOVERNOR BREAM."
Pristipoma virginicum GÜNTHER, op. cit., i, 1859, p. 288.

*32081. One specimen.
32081. One specimen.

64. **Conodon nobilis** (L.). "COIL DRUMMER."
Conodon plumieri GÜNTHER, op. cit., i, 1859, p. 304.

*32047. One specimen.
32047. One specimen.

65. **Lutjanus jocu** Poey. "SCHOOL-MASTER SNAPPER"; "BLACK SNAPPER"; "BUTT SNAPPER"; "DOGTEETH SNAPPER."

*30007. One specimen.
30027. One specimen. D. X, 14; A. III, 8; scales 8–45–16.
30041. One specimen.
30079. One specimen.
*32062. One specimen. D. X, 14; A. III, 8; scales 8–46–16.

66. **Lutjanus buccanella** (C. & V.). "BUTT SNAPPER."
Mesoprion buccanella GÜNTHER, op. cit., i, 1859, p. 198.

32063. One specimen. D. XI, 13; A. III, 8; scales 7–52–17.

67. **Lutjanus analis** Poey. "PAT SNAPPER"; "ROUNDER SNAPPER"; "RED SNAPPER"; "MUTTON SNAPPER."
Mesoprion uninotatus GÜNTHER, op. cit., i, 1859, p. 202.

30031. One specimen.
*30047. One specimen.
*30048. One specimen.
30050. One specimen.
30082. One specimen.
30112. One specimen.
*30122. One specimen.
30132. One specimen.

68. **Lutjanus stearnsii** Goode & Bean. "BLACK SNAPPER."

Lutjanus stearnsii GOODE & BEAN, Proc. U. S. Nat. Mus., i, p. 179, Oct. 4, 1878.

*32056. One specimen.
32057. One specimen.
30010. One specimen.
*30123. One specimen.

69. **Ocyurus chrysurus** (Bl.). "YELLOW TAIL."

Mesoprion chrysurus GÜNTHER, op. cit., i, 1859, p. 186.

*30008. One specimen.
30025. One specimen.
32085. One specimen.

70. **Rhypticus arenatus** C. & V. "SOAP FISH."

Rhypticus arenatus GÜNTHER, op. cit., i, 1859, p. 173.

*30130. Two specimens.
30130. Two specimens.

71. **Tropidinius dentatus** (Guich). "SILK."

Mesoprion dentatus GÜNTHER, op. cit., i, 1859, p. 188.

32055. One specimen. B. VII; D. X, 10; A. III, 8; scales 9-65-19.
*32075. One specimen. B. VII; D. X, 10; A. III, 8; scales 9-64-19.

Measurements.

APRION DENTATUS.

Current number of specimen Locality	32075 Kingston, Jamaica.		32055 Kingston, Jamaica.	
	Millimeters.	100ths of length.	Millimeters.	100ths of length.
Length to origin of middle caudal rays	295	...	385	...
Body:				
Greatest height	119	40.5	152	39.5
Greatest width	41	14	60	15.7
Height at ventrals	119	40.5	149	39
Least height of tail	34	11.6	45	12
Length of caudal peduncle	63	21.5	79	20.5
Head:				
Greatest length	96	33.8	118	30.5
Distance from snout to nape	56	19	84	22
Greatest width	42	14.3	59	15
Width of interorbital area	26	9	39	10
Length of snout	31	10.6	39	10
Length of operculum	27	9.4	35	9
Length of longest gill-raker	13	4.5	15	4
Length of maxillary	31	10.6	41	10.5
Length of mandible	47	16.2	57	14.6
Distance from snout to orbit	32	11	46	12
Diameter of eye	22	7.5	26	6.8
Dorsal (spinous):				
Distance from snout	115	39.2	151	39
Length of base	81	27.5	102	26.5
Length of longest spine:				
Fourth	...	...	52	13.6
Fifth	41	14	...	...
Length of first spine	16	5.5	22	5.7
Length of second spine	29	10	40	10.4
Length of last spine	27	9.4	38	10
Dorsal (soft):				
Length of base	61	21	83	21.6
Length of first ray	31	10.6	43	11.3
Length of longest ray	40	13.8	52	13.6
Length of last ray	38	13	46	12

Measurements—Continued.

	Millimeters.	100ths of length.	Millimeters.	100ths of length.
Anal:				
Distance from snout	187	63.6	247	64
Length of base	53	18	68	17.6
Length of first spine	10	3.5	16	4
Length of second spine	19	6.5	27	7
Length of third spine	26	9	34	8.8
Length of first ray	35	12	46	12
Length of longest ray	37	12.8	55	14.4
Length of last ray	35	12	49	12.8
Caudal:				
Length of middle rays	41	14	50	13
Length of external rays	89	30.3	100	26
Pectoral:				
Distance from snout	90	30.7	115	30
Length	102	35	130	33.7
Ventral:				
Distance from snout	112	38	141	36.6
Length	71	24.2	97	25
Branchiostegals	VII		VII	
Dorsal	X, 10		X, 10	
Anal	III, 8		III, 8	
Pectoral	II, 14		II, 14	
Ventral	I, 5		I, 5	
Number of scales in lateral line	64		65	
Number of transverse rows above lateral line	9		9	
Number of transverse rows below lateral line	19		19	
Number of gill-rakers	$\frac{7}{15}$		$\frac{7}{16}$–$\frac{7}{17}$	

72. Epinephelus apua (Bl.) "ROCK HIND."

Serranus apua GÜNTHER, op. cit., i, 1859, p. 140.

*30006. One specimen.

30009. One specimen.

73. Enneacentrus punctatus (L.) Poey. "BUTTER-FISH."

Serranus ouatalibi GÜNTHER, op. cit., i, 1859, p. 120.

*32083. One specimen.

32083. One specimen.

74. Epinephelus striatus (Bloch) Gill. "ROCK COD"; "GROUPER."

Serranus striatus GÜNTHER, op. cit., i, 1859, p. 110.

29990. One specimen.

*32044. One specimen.

32044. One specimen.

75. Trisotropis bonací Poey. "ROCK COD."

Trisotropis aguají POEY, Rep. Fis. Nat. Cuba, ii, 1866–'68, p. 229.

*29991. One specimen. Length, 20½ inches.

A specimen of *Trisotropis* in this collection resembles *T. brunneus* of Poey, but it is apparently *T. bonací* of the same author, and we refer it provisionally to that species. It is not *T. undulosus* C. & V., of which Dr. Bean has examined a specimen in the Paris museum. Whether or not we are right in using the name *bonací* remains to be determined, and in order to aid in settling the question we append a full description of the example.

In shape the species resembles *T. stomias* Goode & Bean, but its scales are much larger than in *stomias*. The greatest height of the body is contained 3$\frac{1}{5}$ times in its length to the origin of the middle caudal rays, and equals twice the length of the maxilla. The least height of the tail equals the length of the caudal peduncle, and is contained 2$\frac{4}{5}$ times in the greatest body height. The length of the head equals twice the length of the anal base, and is contained 2$\frac{3}{5}$ times in the standard length, which is the total length to caudal base. The lower jaw projects beyond the upper a distance equal to one-fourth the length of the snout. The length of the snout is nearly one-fourth that of the head, and is about twice the length of the eye, which is contained 7$\frac{1}{2}$ times in the length of the head measured to the tip of the opercular flap. The maxilla extends behind the vertical through the posterior margin of the eye and is two-fifths of the length of the head. The distance of the eye from the upper profile of the head is less than one-half the vertical diameter of the eye. The preopercle has a very indistinct notch behind; the denticulations are almost obsolete except at the angle, where there are a few small ones. The lower jaw has two rows of teeth, the outer row of strong, fixed, curved teeth; the inner row of longer, more widely separated, depressible teeth; two canine-like teeth near the symphysis. The outer row in the upper jaw is similar to that in the lower jaw; behind it is a band of closely-placed, smaller, villiform teeth; on each side of the symphysis is a patch of depressible teeth, and in advance of these patches are two moderate canines on the left side and one on the right side. The vomerine and palatine teeth are in villiform bands. The maxilla is scaled on its upper portion. There are also rudimentary scales at the mandibular symphysis. The gill-rakers are strong, with their inner margins spinous. There are three developed gill-rakers above and nine below the angle of the anterior arch, besides a few rudimentary ones both above and below. The longest gill-raker is about two-thirds of the longest diameter of the eye.

The distance of the dorsal origin from the snout is equal to that of the ventral origin from the snout. The length of the base of the spinous portion is equal to that of the soft portion. The first dorsal spine is one-half the length of the third spine; the fourth spine is the longest, and equal to one-third the length of the head without the opercular flap.

The distance of the anal fin from the snout is equal to twice the greatest height of the body. The length of the anal base is about one-half the length of the head, and slightly greater than the length of the pectoral. The first anal spine is one-half as long as the eye and two-fifths of the length of the second spine, which is not quite two-thirds as long as the third. The length of the third spine is about one-half that of the ventral.

The length of the pectoral is one-half the length of the head to the end of the opercular spine. The distance of the ventral from the snout is twice the length of the pectoral, and the length of the ventral is equal to the length of the head without the postorbital portion; it is also equal to that of the upper jaw. The vent is midway between the tip of the extended ventral and the anal origin. The length of the middle caudal ray measured from its anatomical origin is one-half the length of the head. The caudal fin is nearly truncate when expanded, with the tips very slightly produced. Scales about 100 to the anatomical origin of the middle caudal rays. Between the lateral line and the origin of the spinous dorsal fin there are about 16 or 17 scales, and about 30 below.

Radial formula: D. XI, 17; A. III, 12; V. I, 5; gill-rakers, 3+9; scales, 16–100–30.

The general color is violet-brown, with obscure bluish-white blotches on the head and the body. A large dark blotch about twice as large as the eye under the middle of the spinous dorsal. The margins of the soft dorsal, anal, and caudal are dark; the middle of the soft dorsal, anal, and caudal obscurely yellowish. The pectoral is dark in its anterior third, elsewhere yellowish. Ventrals dark.

In coloration this species resembles greatly Bermudan specimens of *Trisotropis undulosus* in the British Museum, but that species has a large number (ca. 34) of gill-rakers.

Measurements.

TRISOTROPIS BONACI POEY.

Current number of specimen Locality	29991. Jamaica, W. I.	
	Millimeters.	100ths of length.
Length to origin of middle caudal rays	435	....
Body:		
Greatest height	137	31½
Greatest width	54	12½
Height at ventrals	130	30
Least height of tail	50	11½
Length of caudal peduncle	50	11½
Head:		
Greatest length to end of opercular flap	168	38.6
Longest gill-raker	16	3.7
Greatest width	65	15
Width of interorbital area	30	7
Length of snout	36	8.3
Length of operculum to end of flap	65	15
Length of maxillary	68	15.6
Length of mandible	87	20
Distance from snout to orbit	44	10.2
Diameter of orbit	21	5
Dorsal (spinous):		
Distance from snout	162	37.2
Length of base	116	26⅔
Longest spine (fourth)	53	12.2
Length of first spine	22	5.1
Length of second spine	41	9.5
Length of last spine (tenth)	46	10.6
Dorsal (soft):		
Length of base	118	27.2
Length of antecedent spine	40	9.2
Length of first ray	51	11.7
Length of longest ray	55	12.6
Length of last ray	32	7.4
Anal:		
Distance from snout	280	64.4
Length of base	85	19.5
Length of first spine	11	2.6
Length of second spine	25	5.7
Length of third spine	36	8.3
Length of first ray	56	12.9
Length of longest ray	61	14
Length of last ray	33	7.7

Measurements—Continued.

	Millimeters.	100ths of length.
Caudal:		
Length of middle rays	86	20
Length of external rays	94	21.6
Pectoral:		
Distance from snout	147	33.8
Length	80	18.4
Ventral:		
Distance from snout	164	37.7
Length	74	17
Dorsal	XI, 17	
Anal	III, 12	
Gill-rakers	3 + 9	
Number of scales in lateral line	ca 100	
Number of transverse rows above lateral line	16	
Number of transverse rows below lateral line	30	

76. Centropomus undecimalis (Bl.) C. & V. "SNOOK."

Centropomus undecimalis GÜNTHER, op. cit., i, 1859, p. 79.

30004. One specimen.
*30011. One specimen.

77. Chætodipterus faber (Broussonet) Jor. & Gilb. "PORTUGUESE."

Ephippus faber GÜNTHER, op. cit., ii, 1860, p. 61.

30074. One specimen. D. VIII–I, 23; A. III, 17.
*30141. One specimen.

78. Elacate canada (L.) Gill. "SHARK-WAITING-BOY."

Elacate nigra GÜNTHER, op. cit., ii, 1860, p. 375.

32078. One specimen.
*32078. One specimen. D. VIII, 29; A. 27.

79. Sphyræna guaguanche C. & V. "SNIT."

Sphyræna guachancho C. & V., Hist. Nat. Poiss., iii, 1829, p. 342.

*30015. One specimen.
30016. One specimen.

80. Sphyræna picuda Bl. & Sch. "BARRACOUTA."

Sphyræna picuda GÜNTHER, op. cit., ii, 1860, p. 336.

32079. One specimen (35 inches long). D. V–I, 9; A. I, 9; scales 10–81–13.
*32079. One specimen.

81. Echeneis naucrates L. "SUCKING-FISH."

Echeneis naucrates GÜNTHER, op. cit., ii, 1860, p. 384.

30002. One specimen.
*30003. One specimen.

82. Mugil curéma C. & V. "MULLET."

Mugil brasiliensis GÜNTHER, op. cit., iii, 1861, p. 431.

*30032. One specimen.
30056. One specimen.
*30078. One specimen.
30091. One specimen.

83. Tylosurus notatus (Poey) Jor. & Gilb. "LONG-JAW."

Belone notata GÜNTHER, op. cit., vi, 1866, p. 248.

32074. One specimen. D. 13; A. 12.

84. Tylosurus euryops, n. sp. "LONG-JAW."

*32073. One specimen. D. i, 15; A. i, 17; V. I, 5.

This collection contains one specimen of a species of *Tylosurus* which appears to be undescribed, and for which, on account of its large eye, we propose the name *T. euryops*.

As the result of an injury the mandible is imperfect and shorter than the upper jaw. The species is quite similar in general appearance to *T. depressus* (Poey); but the eye is much larger than in that species. It resembles, also, *T. truncatus* (Poey), but the caudal peduncle is deeper than wide.

The head to the end of the upper jaw forms one-third of the total length to the end of the caudal fin. The length of the eye is contained 5½ times in that of the snout, and twice in that of the post-orbital part of the head; it is also equal to the width of the interorbital space. The depth of the head exceeds its width, and is contained about 5½ times in its length. The length of the pectoral is contained 6 times in the distance from the tip of the upper jaw to the origin of the ventral, which is about midway between the nostril cavity and the origin of the middle caudal rays. The length of the ventral is one-half that of the pectoral. The length of the dorsal base equals that of the head without the upper jaw. The longest dorsal ray is about one-half the length of the anal base. The longest anal ray is as long as the post-orbital part of the head. The origin of the dorsal fin is 4 times as far from the extremity of the upper jaw as it is from the origin of the middle caudal rays (at the end of the scales). The origin of the anal fin is slightly in advance of that of the dorsal fin. The lower caudal lobe is somewhat longer than the upper; its length slightly exceeds that of the pectoral fin. The upper caudal lobe is twice as long as the eye.

85. Tylosurus gladius Bean. "GUARD-FISH."

Tylosurus gladius BEAN, Proc. U. S. Nat. Mus. v, p. 430, Sept. 18, 1882.

*32077. One specimen. D. 23; A. 21.
32077. One specimen.

86. Hemirhamphus balao Le Sueur. "PIPER."

Hemirhamphus brasiliensis GÜNTHER, op. cit., vi, 1866, p. 270.

30055. One specimen.
*30077. One specimen.
*30100. One specimen.
30115. One specimen.

87. Synodus fœtens (L.) Gill. "MUCCO ROBIN."

Saurus fœtens GÜNTHER, op. cit., v, 1864, p. 396.

*32076. One specimen. D. 12; A. 11; scales 7–63–8.
32076. One specimen. D. 11; A. 11; scales 6–62–7.
32076. One specimen. D. 11; A. 11; scales 6–62–7.

88. **Elops saurus** L. "JOHN MARIGGLE"; "BONY-FISH."
Elops saurus GÜNTHER, op. cit., vii, 1868, p. 470.
32070. One specimen (30 inches). D. 24; A. 14; scales 13–115–17.
*32070. One specimen (24 inches).

89. **Stolephorus productus** (Poey). "GRUBBER BROAD-HEAD."
Engraulis productus GÜNTHER, op. cit., vii, 1868, p. 388.
*30113. Two specimens.
30113. One specimen.
*30138. One specimen. D. 13; A. 30; l. lat. 40.

90. **Opisthonema oglina** (Le Sueur) Goode & Bean. "SPRAT."
Clupea thrissa GÜNTHER, op. cit., vii, 1868, p. 432.
30098. One specimen.
*30124. One specimen.
30124. One specimen.
30133. One specimen.

91. **Clupea pseudohispanica** (Poey) Gthr. "BANG."
Clupea pseudohispanica GÜNTHER, op. cit., vii, 1868, p. 442.
30067. One specimen.
*30071. One specimen.
30140. One specimen.
*30140. One specimen.

92. **Clupea humeralis** (C. & V.) Gthr. "WHITE-BILL"; "PINCERS."
Clupea humeralis GÜNTHER, op. cit., vii, 1868, p. 422.
30080. One specimen.
30139. Two specimens.

93. **Cetengraulis edentulus** (Cuv.) Gthr. "TRAPONG FRY."
Cetengraulis edentulus GÜNTHER, op. cit., vii, 1868, p. 383.
30073. One specimen.
*30075. One specimen.
*30119. One specimen.
*30127. Two specimens.
30127. Two specimens.

94. **Conger niger** (Risso) Jor. & Gilb. "DEEP-WATER EEL."
Conger vulgaris GÜNTHER, op. cit., viii, 1870, p. 38.
*32071. One specimen (39½ inches long).
32071. One specimen (42½ inches long).

95. **Sidera funebris** (Ranz.) Jor. "CONGER EEL."
Murœna afra GÜNTHER, op. cit., viii, 1870, p. 123.
32067. One specimen (5 feet long).
*32067. One specimen (41 inches long).

96. **Sidera moringa** (Cuv.) Jor. "MURRAY EEL."
Murœna moringa GÜNTHER, op. cit., viii, 1870, p. 120.
*32066. One specimen.
32066. One specimen.

97. **Narcine brasiliensis** (Olfers) Henle. "TREMBLER."
Narcine brasiliensis GÜNTHER, op. cit., viii, 1870, p. 453.
*32082. One specimen. ♂.
32082. One specimen ♀ (much darker in color than the ♂).

98. **Rhinobatus undulatus** Olfers. "SEA FIDDLER."
Rhinobatus undulatus GÜNTHER, op. cit., viii, 1860, p. 444.
*30001, ♂. One specimen.
30017, ♂. One specimen.
*30018, ♀. One specimen.

99. **Sphyrna zygæna** (L.) Müll. & Henle. "SHOVEL-NOSE SHARK."
Zygæna malleus GÜNTHER, op. cit., viii, 1870, p. 381.
29998, ♀. One specimen.
*29999, ♂. One specimen.

100. **Carcharias terræ-novæ** (Rich.) Gthr. "GROUND SHARK"; "TIGER SHARK"; "WHITE SHARK."
Carcharias terræ-novæ GÜNTHER, op. cit., viii, 1870, p. 360.
29997. One specimen. ♂.
30012. One specimen. ♂.
30013. One specimen. ♀.
*30014. One specimen. ♂.
*30059. One specimen.
30059. One specimen.

ON A NEW MUSKRAT, *Neofiber Alleni*, FROM FLORIDA.

By FREDERICK W. TRUE, M. S.,

Curator of the Department of Mammals in the U. S. National Museum.

WASHINGTON, *June* 30, 1884.

In December, 1883, the Museum received from Mr. William Wittfeld, of Georgiana, Brevard County, Florida, a small rodent which was immediately recognized as differing from any species which had been hitherto described. I gave a brief account of it in Science for ——, 1884, which I wish now to supplement by a somewhat fuller and more technical description.

New genus, NEOFIBER.

Skull and dentition as in *Fiber*. Feet normal; toes not bent laterally at an angle with the sole; tail, round.

New species, NEOFIBER ALLENI.

Neofiber Alleni, True, Science, IV, No. 75, 1884, p. 34.

A muskrat of less than half the size of *Fiber zibethicus*, but of the same general form. Eyes small and high up on the head. Ears mod-